



SEQUENCE LISTING

<110> Ross, Jeffrey

<120> THE C-MYC CODING REGION DETERMINANT-BINDING PROTEIN
(CRD-BP) AND ITS NUCLEIC ACID SEQUENCE

<130> 960296.95131

<140>

<141>

<160> 46

<170> PatentIn Ver. 2.0

<210> 1

<211> 2224

<212> DNA

<213> Mus musculus

<400> 1

```
gggtggggtg sgtagaaagt ttgcggetcc gcgcgcccgt atccacgcct atcggcatag 60
gaggatatcc gcccgcgccc gcccggatcg gcattgaatg gaacagtgtc cttgccccgc 120
caccgccacc atgaacaagc ttacatcgg caacctcaac gagagtgtga cccccgcaga 180
cttgagaaaa gtattcgcg agcacaagat ctctacagc ggccagttct tggtaaatac 240
cggctacgcc ttctgtgatt gccccgacga gcactgggcy atgaaggcca tcgaaacttt 300
ctcggggaaa gtagaactgc aaggaaaacg tctagagatt gaacactcag tccccaaaaa 360
acaaaggagt cggaaaatac agatccgcaa tattccacct cagctccgat gggaaagtgt 420
agatagcctg ctggctcagt acggtacagt ggagaactgt gagcaagtga aactgaaaag 480
tgagacagcg gtggtcaacg tcacctactc taaccgggag cagaccaggc aagctatcat 540
gaagctaaat ggccatcaac tggagaacca tgccctgaag gtctcctaca tacctgatga 600
gcagataaca caaggtcctg agaatgggcy tctgtgaggc tttgggtctc ggggccagcc 660
ccggcaaggg tcgcccgtgg cagcaggggc tcagccaag cagcagccag tggacatccc 720
tctccggctc ctggtgccta cgcagtatgt aggcgctatc attggcaagg aggggtgccac 780
catccgaaac atcacaaaac agacgcagtc caaaatagac gtgcatagga aggagaatgc 840
gggcgctgcy gagaaggcca tcagcgtgca ttcaaccctc gaaggctgct cctccgctg 900
caagatgata ttggagatta tgcacaagga ggcaaaggac accaaaacgg cagatgaagt 960
tcccctgaag atcctggctc ataacaactt cgtcgggcyga ctattggca aggaaggccg 1020
gaacctgaag aaggtggagc aggaacacaga gacgaagatc accatctcat cgtccagga 1080
cctcacgctc tataaccctg agaggaccat cactgtgaag ggcgccattg agaactgttg 1140
cagggccgag caggagatca tgaagaaagt tcgagaggct tacgagaacg acgtggccgc 1200
catgagcttg cagtcaccac tcatccctgg gcttaacctg gctgctgtag gtctcttccc 1260
agcttcatcc agcgtgtgct ctctctctcc cagcagtgtc actggggctg ctccctatag 1320
ctccttcatg caggctccgg agcaggagat ggtacaagtg ttcatccccg ccaggtgtgt 1380
gggcgccatc attggcaaga agggccagca catcaaaaca ctctccggtt tcgccagcgc 1440
ctccatcaag attgctccac cagaaacacc tgactccaaa gttcgaatgg tcgtcatcac 1500
tggaccccca gaggctcagt tcaaggctca ggaagaatt tatggcaaac taaaagaaga 1560
```

RECEIVED

AUG 02 2001

TECH CENTER 1600/2900

09873637 072001

```

gaatttcttt ggtcccaagg aggaagtaaa gctagagacc cacatacggg ttccggcttc 1620
agcagccggc cgcgtcatcg gcaaaggcgg caaaacgggtg aatgagctgc agaacttgac 1680
tgcagctgag gtggtagtgc caagagacca gaccccggtg gagaacgacc aagtcattgt 1740
taagatcatc ggacatttct atgccagcca gatggctcag cggaagatcc gagacatcct 1800
ggctcaagtt aagcaacagc accagaaggg acagagcaac ctggcccagg cacggaggaa 1860
gtgaccccg cccctcctgt cccattggct ccaagatcag caggaggaac acagaactgg 1920
aggggcgggt ggagggccgg tgtgtttttc ccagcaggcc tgagaatgag tgggaatcag 1980
ggcatttggg cctggctgga gatcagggtt gcacactgta ttgagaacaa tgttccagt 2040
aggaatcctg atctctcgcc cccaattgag ccagctggcc acagcccacc ccttgaata 2100
tcaccattgc aatcataget tgggttgctt ttaaacgtgg attgtcttga agttctccag 2160
cctccatgga aggatgggtc agatcccagt ggggaagaga aataaaattt ccttcagggt 2220
ttat 2224

```

<210> 2

<211> 577

<212> PRT

<213> Mus musculus

<400> 2

```

Met Asn Lys Leu Tyr Ile Gly Asn Leu Asn Glu Ser Val Thr Pro Ala
  1              5              10              15

Asp Leu Glu Lys Val Phe Ala Glu His Lys Ile Ser Tyr Ser Gly Gln
      20              25              30

Phe Leu Val Lys Ser Gly Tyr Ala Phe Val Asp Cys Pro Asp Glu His
      35              40              45

Trp Ala Met Lys Ala Ile Glu Thr Phe Ser Gly Lys Val Glu Leu Gln
      50              55              60

Gly Lys Arg Leu Glu Met Glu His Ser Val Pro Lys Lys Gln Arg Ser
      65              70              75              80

Arg Lys Ile Gln Ile Arg Asn Ile Pro Pro Gln Leu Arg Trp Glu Val
      85              90              95

Leu Asp Ser Leu Leu Ala Gln Tyr Gly Thr Val Glu Asn Cys Glu Gln
      100              105              110

Val Asn Thr Glu Ser Glu Thr Ala Val Val Asn Val Thr Tyr Ser Asn
      115              120              125

Arg Glu Gln Thr Arg Gln Ala Ile Met Lys Leu Asn Gly His Gln Leu
      130              135              140

Glu Asn His Ala Leu Lys Val Ser Tyr Ile Pro Asp Glu Gln Ile Thr
      145              150              155              160

```

09873637 073004
T00E29 7E9E2860

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Gln | Gly | Pro | Glu | Asn | Gly | Arg | Arg | Gly | Gly | Phe | Gly | Ser | Arg | Gly | Gln | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| Pro | Arg | Gln | Gly | Ser | Pro | Val | Ala | Ala | Gly | Ala | Pro | Ala | Lys | Gln | Gln | |
| | | 180 | | | | | | 185 | | | | | 190 | | | |
| Pro | Val | Asp | Ile | Pro | Leu | Arg | Leu | Leu | Val | Pro | Thr | Gln | Tyr | Val | Gly | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Ala | Ile | Ile | Gly | Lys | Glu | Gly | Ala | Thr | Ile | Arg | Asn | Ile | Thr | Lys | Gln | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Thr | Gln | Ser | Lys | Ile | Asp | Val | His | Arg | Lys | Glu | Asn | Ala | Gly | Ala | Ala | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Glu | Lys | Ala | Ile | Ser | Val | His | Ser | Thr | Pro | Glu | Gly | Cys | Ser | Ser | Ala | |
| | | | | 245 | | | | | 250 | | | | | 255 | | |
| Cys | Lys | Met | Ile | Leu | Glu | Ile | Met | His | Lys | Glu | Ala | Lys | Asp | Thr | Lys | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| Thr | Ala | Asp | Glu | Val | Pro | Leu | Lys | Ile | Leu | Ala | His | Asn | Asn | Phe | Val | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Gly | Arg | Leu | Ile | Gly | Lys | Glu | Gly | Arg | Asn | Leu | Lys | Lys | Val | Glu | Gln | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Asp | Thr | Glu | Thr | Lys | Ile | Thr | Ile | Ser | Ser | Leu | Gln | Asp | Leu | Thr | Leu | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| Tyr | Asn | Pro | Glu | Arg | Thr | Ile | Thr | Val | Lys | Gly | Ala | Ile | Glu | Asn | Cys | |
| | | | | 325 | | | | | 330 | | | | 335 | | | |
| Cys | Arg | Ala | Glu | Gln | Glu | Ile | Met | Lys | Lys | Val | Arg | Glu | Ala | Tyr | Glu | |
| | | | 340 | | | | | 345 | | | | | 350 | | | |
| Asn | Asp | Val | Ala | Ala | Met | Ser | Leu | Gln | Ser | His | Leu | Ile | Pro | Gly | Leu | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |
| Asn | Leu | Ala | Ala | Val | Gly | Leu | Phe | Pro | Ala | Ser | Ser | Ser | Ala | Val | Pro | |
| | 370 | | | | | 375 | | | | | 380 | | | | | |
| Pro | Pro | Pro | Ser | Ser | Val | Thr | Gly | Ala | Ala | Pro | Tyr | Ser | Ser | Phe | Met | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | |
| Gln | Ala | Pro | Glu | Gln | Glu | Met | Val | Gln | Val | Phe | Ile | Pro | Ala | Gln | Ala | |
| | | | | 405 | | | | | 410 | | | | | 415 | | |

<213> Homo sapiens

<400> 4

Gly Arg Arg Gly Leu Gly Gln Arg Gly Ser Ser Arg Gln Gly
1 5 10

<210> 5

<211> 14

<212> PRT

<213> Homo sapiens

<400> 5

Gly Arg Gly Gly Phe Asp Arg Met Pro Pro Gly Arg Gly Gly
1 5 10

<210> 6

<211> 13

<212> PRT

<213> Homo sapiens

<400> 6

Gly Arg Gly Gly Phe Gly Asp Arg Gly Gly Arg Gly Gly
1 5 10

<210> 7

<211> 14

<212> PRT

<213> Homo sapiens

<400> 7

Gly Arg Gly Gly Phe Gly Gly Arg Gly Gly Gly Arg Gly Gly
1 5 10

<210> 8

<211> 14

<212> PRT

<213> Homo sapiens

<400> 8

Leu Arg Arg Gly Asp Gly Arg Arg Arg Gly Gly Gly Arg Gly
1 5 10

<210> 9

Thr Ile Ser Ser Leu Gln Asp Leu Thr Leu Tyr
1 5 10

<210> 14

<211> 11

<212> PRT

<213> Homo sapiens

<400> 14

Thr Ile Ser Pro Leu Gln Glu Leu Thr Leu Tyr
1 5 10

<210> 15

<211> 11

<212> PRT

<213> Human immunodeficiency virus

<400> 15

Gln Leu Pro Pro Leu Glu Arg Leu Thr Leu Asp
1 5 10

<210> 16

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Consensus sequence for SEQ ID NOs:10-15.

<400> 16

Gln Leu Leu Glu Leu Thr Leu
1 5

<210> 17

<211> 47

<212> PRT

<213> Mus musculus

<400> 17

Leu Leu Val Pro Thr Gln Tyr Val Gly Ala Ile Ile Gly Lys Glu Gly
1 5 10 15

Ala Thr Ile Arg Asn Ile Thr Lys Gln Thr Gln Ser Lys Ile Asp Val
20 25 30

<212> PRT
<213> Homo sapiens

<400> 23

Gln Phe Ile Pro Ala Leu Ser Val Gly Ala Ile Ile Gly Lys Gln Gly
1 5 10 15

Gln His Ile Lys Gln Leu Ser Arg Phe Ala Gly Ala Ser Ile Lys Ile
20 25 30

Ala Pro Ala Glu Ala Pro Asp Ala Lys Val Arg Met Val Ile Ile
35 40 45

<210> 24

<211> 48

<212> PRT

<213> Homo sapiens

<400> 24

Ile Arg Val Pro Ser Phe Ala Ala Gly Arg Val Ile Gly Lys Gly Gly
1 5 10 15

Lys Thr Val Asn Glu Leu Gln Asn Leu Ser Ser Ala Glu Val Val Val
20 25 30

Pro Arg Asp Gln Thr Pro Asp Glu Asn Asp Gln Val Val Val Lys Ile
35 40 45

<210> 25

<211> 50

<212> PRT

<213> Homo sapiens

<400> 25

Ile Leu Leu Gln Ser Lys Asn Ala Gly Ala Val Ile Gly Lys Gly Gly
1 5 10 15

Lys Asn Ile Lys Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val
20 25 30

Pro Asp Ser Ser Gly Pro Glu Arg Ile Leu Ser Ile Ser Ala Asp Ile
35 40 45

Leu Asp Glu Asp Thr Cys Thr Phe His Ile Tyr Gly
 35 40

<210> 29
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 29
 Ile Gln Val Pro Arg Asn Leu Val Gly Lys Val Ile Gly Lys Asn Gly
 1 5 10 15

Lys Leu Ile Gln Glu Ile Val Asp Lys Ser Gly Val Val Arg Val Arg
 20 25 30

Ile Glu Ala Glu Asn Glu Lys Asn Val Pro Gln
 35 40

<210> 30
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consensus sequence for SEQ ID NOs:17-29.

<400> 30
 Leu Leu Val Gly Leu Ile Gly Lys Gly Gly Leu Lys Leu Leu Leu Arg
 1 5 10 15

Ile Ile

<210> 31
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide primer

<400> 31
 gtbaaygary tbcaraa

17

<210> 32

| | |
|---|----|
| <211> 17 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 32 | |
| ggvacvacva cytcgdc | 17 |
| <210> 33 | |
| <211> 17 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 33 | |
| gctgccgtca aattctg | 17 |
| <210> 34 | |
| <211> 17 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 34 | |
| tcgacgggtt ccatatg | 17 |
| <210> 35 | |
| <211> 38 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 35 | |
| aaccgggtc gagcgccgc tttttttttt tttttttt | 38 |
| <210> 36 | |
| <211> 23 | |
| <212> DNA | |
| <213> Artificial Sequence | |

| | |
|------------------------------|----|
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 36 | |
| acggcagctg aggtggtagt acc | 23 |
| <210> 37 | |
| <211> 21 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 37 | |
| aaccggtc gagcgccgc t | 21 |
| <210> 38 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 38 | |
| aggtccgctc cttccttgcc aatg | 24 |
| <210> 39 | |
| <211> 20 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 39 | |
| aacttcatct gccgttttg | 20 |
| <210> 40 | |
| <211> 19 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 40 | |

| | |
|-------------------------------------|----|
| catcaactgg agaaccatg | 19 |
| <210> 41 | |
| <211> 21 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 41 | |
| gactgcgtct gttttgtgat g | 21 |
| <210> 42 | |
| <211> 20 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 42 | |
| ctgtaggaga tcttgtgctc | 20 |
| <210> 43 | |
| <211> 32 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 43 | |
| cgcaccgcca ccatggacaa gctttacatc gg | 32 |
| <210> 44 | |
| <211> 20 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Oligonucleotide primer | |
| <400> 44 | |
| actgggatct gaccatcct | 20 |
| <210> 45 | |
| <211> 16 | |

<212> PRT
<213> Mus musculus

<220>
<221> PEPTIDE
<222> (8)
<223> Xaa where Xaa = Gln or Ile

<220>
<221> PEPTIDE
<222> (10)
<223> Xaa where Xaa = Lys or Arg

<220>
<221> PEPTIDE
<222> (11)
<223> Xaa where Xaa = Ile or Lys

<220>
<221> PEPTIDE
<222> (12)
<223> Xaa where Xaa = Tyr or Gly

<220>
<221> PEPTIDE
<222> (15)
<223> Xaa where Xaa = Ile or Leu

<400> 45
Pro Ala Gln Val Gly Ala Ile Xaa Gly Xaa Xaa Xaa Gln Xaa Xaa Lys
1 5 10 15

<210> 46
<211> 14
<212> PRT
<213> Mus musculus

<400> 46
Asn Glu Leu Gln Asn Leu Thr Ala Ala Glu Val Val Val Pro
1 5 10

09073637 072004
T00020" 2E9E2860